

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-37. (canceled)

38. (new) A system for determining a GNSS-defined position of a single point on a structure, which system comprises:

a redundant array of multiple GNSS receivers;

multiple antennas each connected to a respective receiver and mounted in fixed relation relative to each other on said structure;

a common clock connected to said receivers:

an orientation device mounted on said structure and adapted for determining its orientation;

a position solution processor configured for computing a GNSS-defined position solution for said structure utilizing the output of said receivers in unison where: (1) GNSS signals received by said antennas are input to said position solution processor; (2) received signals are sampled at the same instant by operation of a common sample clock; and (3) the known relative orientation of said structure is input into the position solution processor; and

said position solution processor is adapted for computing the location of the single point on the structure.

39. (new) The system according to claim 38, which includes:

said orientation device comprising a GNSS receiver processing data from two or more of said antennas.

40. (new) The system according to claim 39, which includes:

said GNSS receiver orientation device having a fixed orientation relative to said structure.

41. (new) The system according to claim 38 wherein said multiple receivers are incorporated into a single receiver unit.

42. (new) The system according to claim 38, which includes:

a plurality of switches each associated with a respective antenna; and

said position solution processor being preprogrammed for operating said switches to select one or more of said antennas for providing signal input to a respective receiver substantially simultaneously.

43. (new) The system according to claim 38 wherein said orientation device comprises a compass.

44. (new) The system according to claim 38, which includes:

said receiver array including a master receiver and a slave receiver;

said slave receiver including a temperature sensor;

a thermocouple attached to said temperature sensor; and

said slave receiver compensating for temperature drift.

45. (new) The system according to claim 38 wherein said structure comprises a marine vessel.

46. (new) The system according to claim 38 wherein said structure is terrestrial.

47. (new) A system for determining a GNSS-defined position of a single point on a structure, which system comprises:

a redundant array of multiple GNSS receivers incorporated into a single receiver unit;

multiple antennas each connected to a respective receiver and mounted in fixed relation relative to each other on said structure;

a common clock connected to said receivers;

an orientation device mounted on said structure and adapted for determining its

orientation, said orientation device comprising a GNSS receiver

processing data from two or more antennas;

a position solution processor configured for computing a GNSS-defined position

solution for said structure utilizing the output of said receivers in unison

where: (1) GNSS signals received by said antennas are input to said position

solution processor; (2) received signals are sampled at the same instant by

operation of a common sample clock; and (3) the known relative orientation of

said structure is input into the position solution processor;

said position solution processor is adapted for computing the location of the single point on

the structure;

a plurality of switches each associated with a respective antenna; and

said position solution processor being preprogrammed for operating said switches to select one or more of said antennas for providing signal input to a respective receiver substantially simultaneously.